



Minnesota Ag News – Crop Weather

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COOPERATING WITH THE MN DEPARTMENT OF AGRICULTURE, NATIONAL WEATHER SERVICE - CHANHASSEN, MN

UNIV. OF MINN. EXTENSION SERVICE, DNR STATE CLIMATOLOGY OFFICE, USDA-FSA, USDA-NRCS, and Local FACs

RAINS SLOWED FIELDWORK

Cooler, wet weather prevailed this past week along with substantial winds at times, according to the USDA, NASS, Minnesota Field Office. As of September 5, average temperatures dropped closer to normal levels compared with August, when average temperatures were 2 to 7° warmer than normal. The statewide average temperature was 64.2°, 1.3° above normal. Average precipitation ranged from 0.28 inch below normal in the Northeast District to 1.75 inches above normal in the West Central District. Statewide topsoil moisture supplies were rated 74 percent adequate and 23 percent surplus, compared with 85 percent adequate and 9 percent surplus last week. Surplus topsoil moisture levels returned to levels last seen in July. Statewide 4.4 days were rated suitable for fieldwork.

Corn development remained ahead of average pace. Eighty-five percent of corn was in the dent stage, compared to 27 percent last year and 67 percent for the five-year average. Corn in the mature stage was 12 percent, compared to 0 percent last year and 8 percent average. Corn silage was 35 percent harvested, compared to 8 percent last year and 25 percent average. Corn was rated in 53 percent good and 38 percent excellent condition, nearly equal to last week.

Soybean development was on pace with average. Forty-six percent of soybeans were turning yellow, compared to 27 percent last year and 47 percent average. Twelve percent of soybeans were dropping their leaves, compared to 1 percent last year and 12 percent average. Soybeans were two percent mature, compared to 0 percent last year and 1 percent average. Soybeans were rated in 57 percent good and 32 percent excellent condition, unchanged from last week.

Potatoes were 31 percent harvested, sweet corn was 73 percent harvested, dry beans were 14 percent harvested, and sugarbeets were 7 percent harvested. The canola harvest was virtually complete at 97 percent.

The following links provide further weather-related information and maps for Minnesota:

Minnesota Climatology Working Group provides statewide precipitation maps for the previous week:
<http://climate.umn.edu/doc/weekmap.asp>

National Weather Service's Minnesota Data:
<http://www.nws.noaa.gov/view/states.php?state=MN>

Days Suitable for Fieldwork: 4.4

	Very Short	Short	Adequate	Surplus
	----- Percent -----			
Topsoil Moisture	0	3	74	23

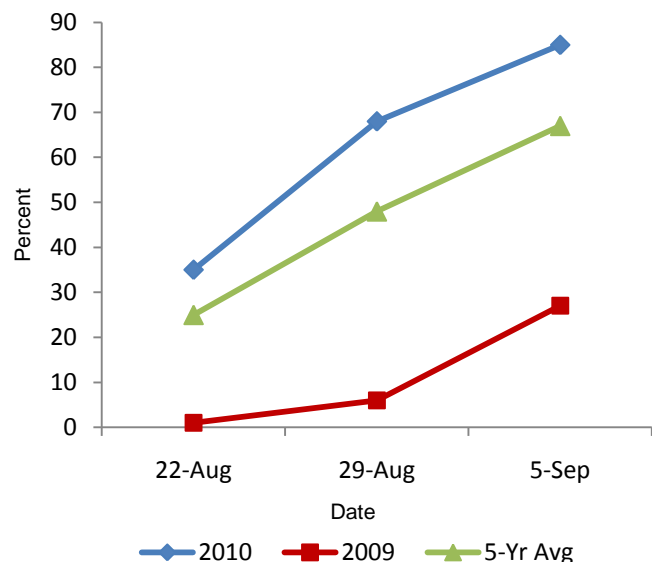
Crop Progress as of September 5, 2010

Crop	Stage of Development	This Week	Last Week	Last Year	5 Yr Avg
		----- Percent -----			
Corn	Dent	85	68	27	67
Corn	Mature	12	2	0	8
Corn Silage	Harvested	35	12	8	25
Soybeans	Turning Yellow	46	14	27	47
Soybeans	Shedding Leaves	12	2	1	12
Soybeans	Mature	2	NA	0	1
Potatoes	Harvested	31	28	22	32
Sweet Corn	Harvested	73	64	58	71
Canola	Harvested	97	94	19	67
Dry Beans	Leaves Yellowing	86	43	NA	NA
Dry Beans	Dropping Leaves	48	16	NA	NA
Dry Beans	Harvested	14	3	5	12
Sugarbeets	Harvested	7	4	3	2

Condition as of September 5, 2010

	Very Poor	Poor	Fair	Good	Exc
----- Percent -----					
Pasture	0	2	12	66	20
Sugarbeets	0	1	7	56	36
Corn	0	2	7	53	38
Potatoes	0	0	3	59	38
Soybeans	1	1	9	57	32
Sunflowers	1	2	10	70	17
Dry Beans	0	1	13	69	17

Corn in Dent Stage



PRECIPITATION AND TEMPERATURES FOR THE WEEK ENDING September 5, 2010:
Temperatures averaged from 0.0 degree in the West Central District to 2.8 degrees above normal in the East Central District. Extremes: 30 degrees in Hibbing; 94 degrees Red Wing. Average precipitation ranged from 0.28 inch below normal in the Northeast District to 1.75 inches above normal in the West Central District. Greatest weekly total of 5.30 inches was recorded in Marshall.

For a map of Minnesota's precipitation, please see the Minnesota Climatology Group's website; <http://climate.umn.edu/doc/weekmap.asp>.

Precipitation and Temperature Summary for 8/30/2010 through 9/5/2010

	Temperature				Precipitation				G D D	
	High	Low	Week Ave	Depart from Norm	Week Total	Depart Past Week	Four Weeks	From Norm Since 4/1	Since April 23	Depart from Norm
<u>NW DIST 1</u>										
Crookston	87	40	62.7	.1	.21	-.38	-.28	1.40	2156	101
Itasca	87	37	62.4	3.6	1.51	.75	1.15	.70	1930	250
Moorhead	89	41	63.2	-.4	.18	-.35	.38	1.99	2301	149
Warroad	86	38	61.4	1.6	1.38	.73	-.36	4.43	1808	22
<u>NC DIST 2</u>										
Grand Rapids	89	35	61.4	1.5	.79	.03	.64	2.33	2005	209
Intl. Falls	88	31	58.5	.1	.74	-.00	-.03	5.13	1759	77
<u>NE DIST 3</u>										
Duluth	87	37	61.4	2.1	.80	-.23	.72	4.24	1832	261
Grand Marais	74	39	57.7	-1.7	.40	-.37	-1.05	-2.26	1246	56
Hibbing	87	30	60.2	1.6	.52	-.24	-.12	1.16	1842	210
<u>WC DIST 4</u>										
Alexandria	86	46	62.8	-.1	2.83	2.09	4.11	3.60	2226	169
Browns Valley	91	40	63.6	-1.4	1.52	1.02	.65	2.23	2212	-63
Canby	91	46	66.2	-.2	3.04	2.45	2.07	2.48	2427	44
Dalton	86	46	64.8	.8	1.52	.92	2.19	2.60	2292	171
Montevideo	89	43	65.4	.3	2.20	1.59	2.37	3.13	2262	-3
Morris	88	44	63.6	-.6	2.67	2.09	5.84	3.10	2237	30
Wheaton	90	46	65.8	1.0	2.63	2.11	2.75	-.19	2257	11
<u>CENT DIST 5</u>										
Becker	90	40	66.2	3.4	1.76	.89	1.55	3.65	2410	320
Collegeville	89	46	66.2	.6	3.11	2.28	5.50	3.48	2450	136
Hutchinson	89	45	67.4	2.5	1.53	.81	3.75	5.81	2463	174
Melrose	87	43	64.0	-.0	1.62	.90	6.38	5.50	2159	-26
Olivia	88	44	65.1	1.2	1.25	.52	1.40	2.84	2260	34
St. Cloud	90	42	63.7	1.4	3.00	2.18	4.27	2.45	2305	271
Staples	88	41	64.2	3.4	1.24	.60	.09	4.41	2135	294
Wadena	86	41	62.6	1.9	1.62	.98	1.96	6.56	1965	119
Willmar	88	44	64.6	.3	3.45	2.68	6.23	8.68	2338	116
<u>EC DIST 6</u>										
Aitkin	88	37	64.4	4.5	.99	.22	3.16	1.78	1923m	186m
Forest Lake	92	44	66.9	3.0	1.96	1.05	.65	2.69	2407	233
Hinckley	86	38	64.3	3.9	.87	.02	3.48	7.50	1928	109
MSP Airport	92	48	68.2	2.3	1.09	.31	1.74	1.31	2713	336
St. Paul - UofM	91	46	66.4	.6	1.51	.63	3.06	2.91	2455	121
<u>SW DIST 7</u>										
Lamberton	89	44	66.4	1.5	2.87	2.18	1.83	3.99	2525	210
Marshall	91	46	67.4	1.5	5.30	4.69	3.85	8.77	2460	102
Pipestone	87	40	64.6	.1	1.83	1.14	1.43	7.53	2297	70
Redwood Falls	91	45	65.9	-.6	1.71	1.01	.70	3.14	2507	55
Worthington	87	43	65.0	1.2	.43	-.28	-.26	1.23	2396	231
<u>SC DIST 8</u>										
Faribault	90	44	67.0	2.5	2.95	2.05	2.53	3.22	2418	212
Mankato	91	43	66.4	1.2	2.40	1.52	.99	2.92	2438	131
Waseca	92	42	66.5	1.7	2.21	1.31	-.44	4.35	2433	184
Winnebago	90	45	68.2	2.4	.60	-.17	-.46	3.43	2564	236
<u>SE DIST 9</u>										
Preston	91	50	70.2	6.1	1.85	.87	.49	3.39	2510	391
Red Wing	94	46	68.8	3.4	2.89	2.00	2.25	4.38	2559	267
Rochester	86	43	65.1	1.5	.87	.01	-.40	.36	2414	318
Rosemount	91	46	66.9	2.5	1.50	.55	2.73	4.59	2426	241
Winona	90	47	68.0	2.3	2.41	1.51	1.67	7.84	2481	157

m=some data missing

Corn growing degree days (GDD) are calculated by subtracting a 50 degree base temperature from the average of the maximum and minimum temperature for the day. The daily maximum is limited to 86 degrees and minimum of 50 degrees.

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